

10

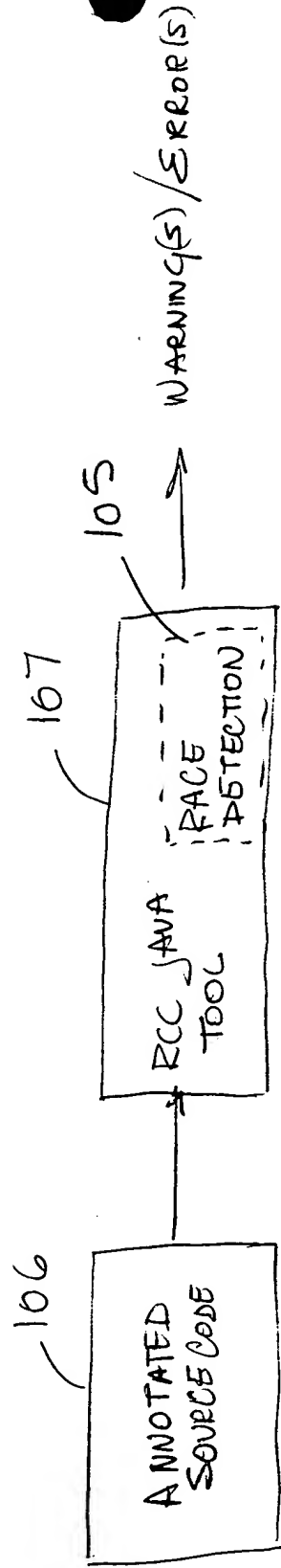
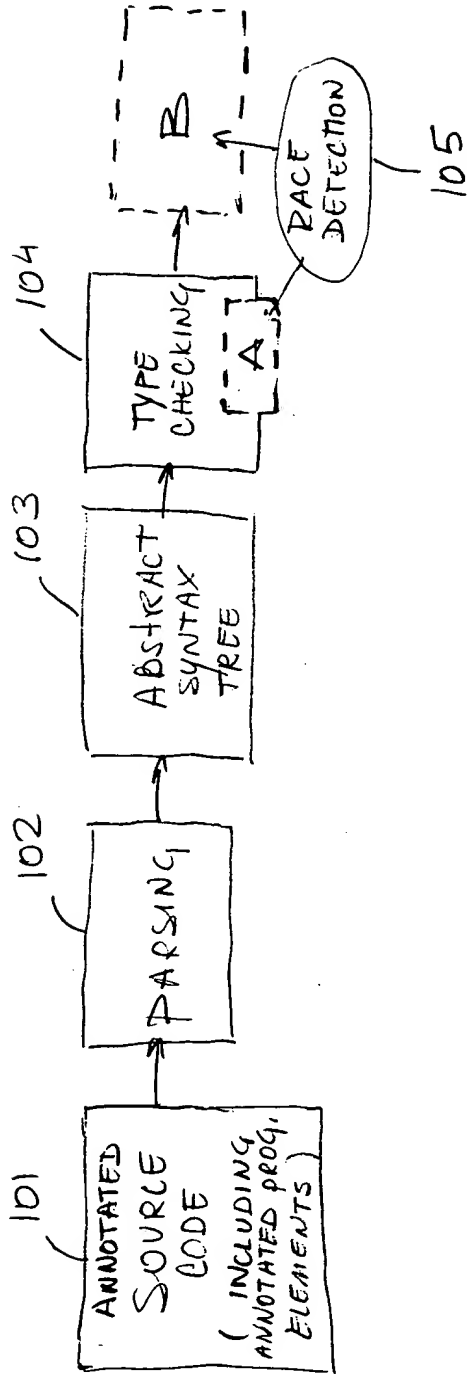
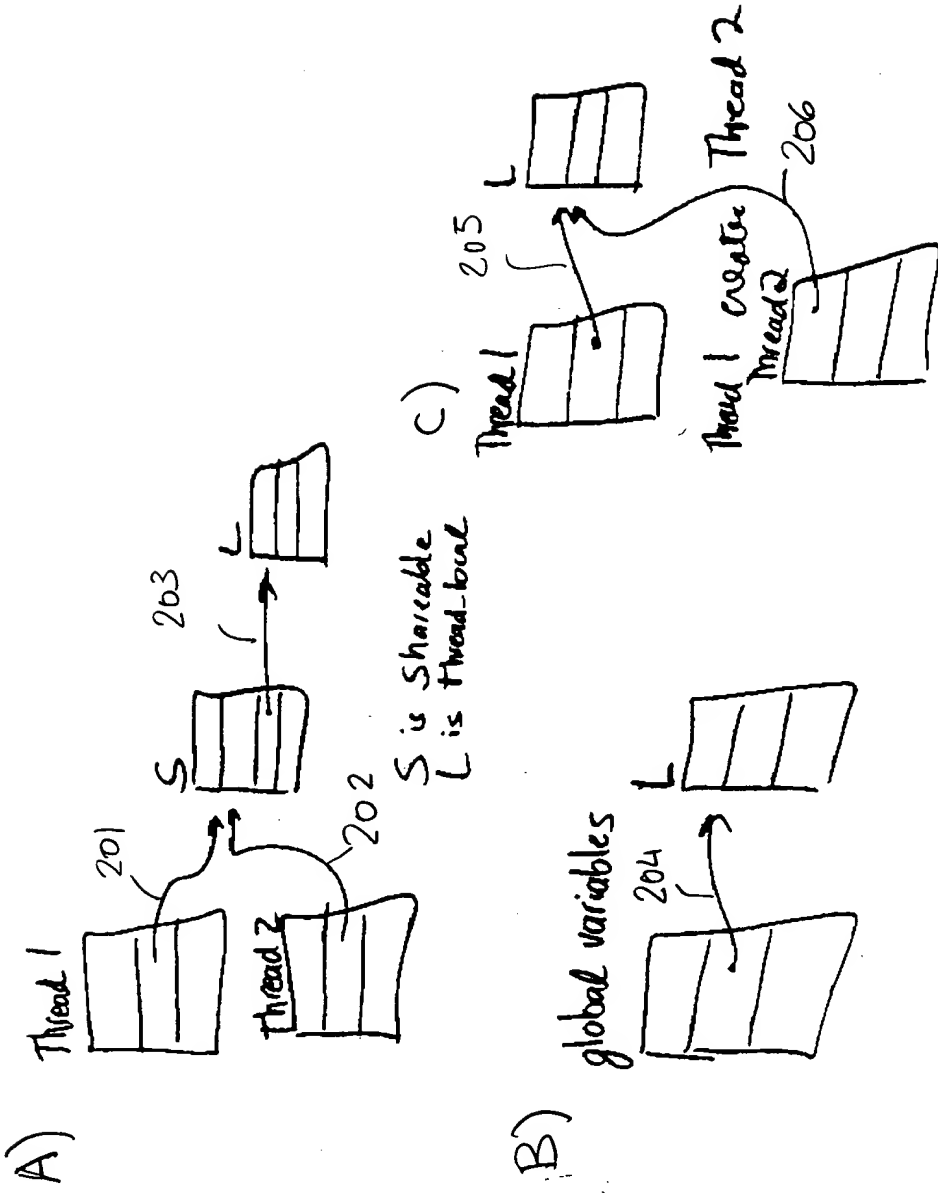
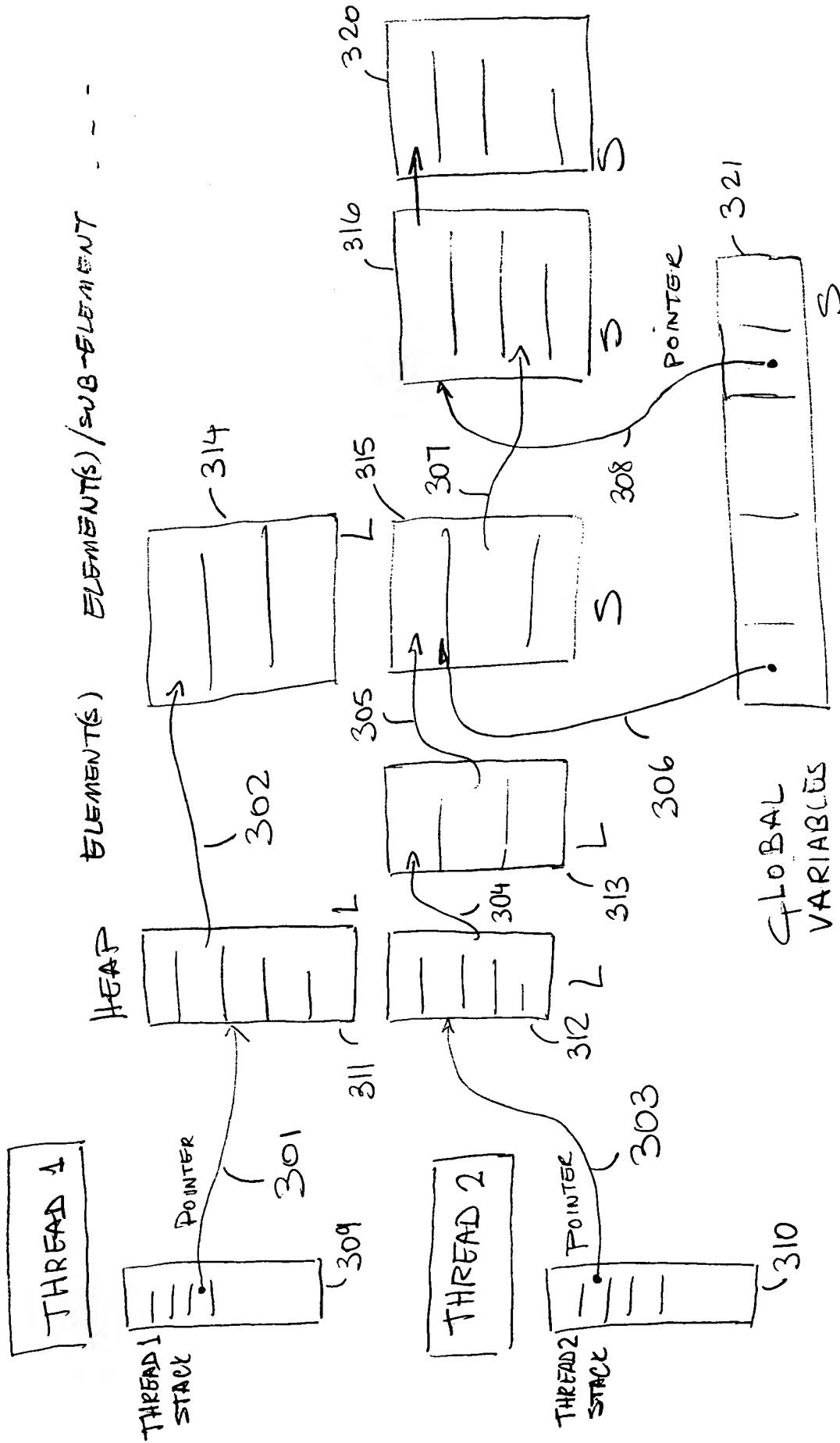


Fig. 1



checked at Thread creation prints  
in program text.

Fig. 2



30 - PROG. SOURCE CODE (ANNOTATED)

L: THREAD-LOCAL  
S: THREAD-SHARED

Fig. 3

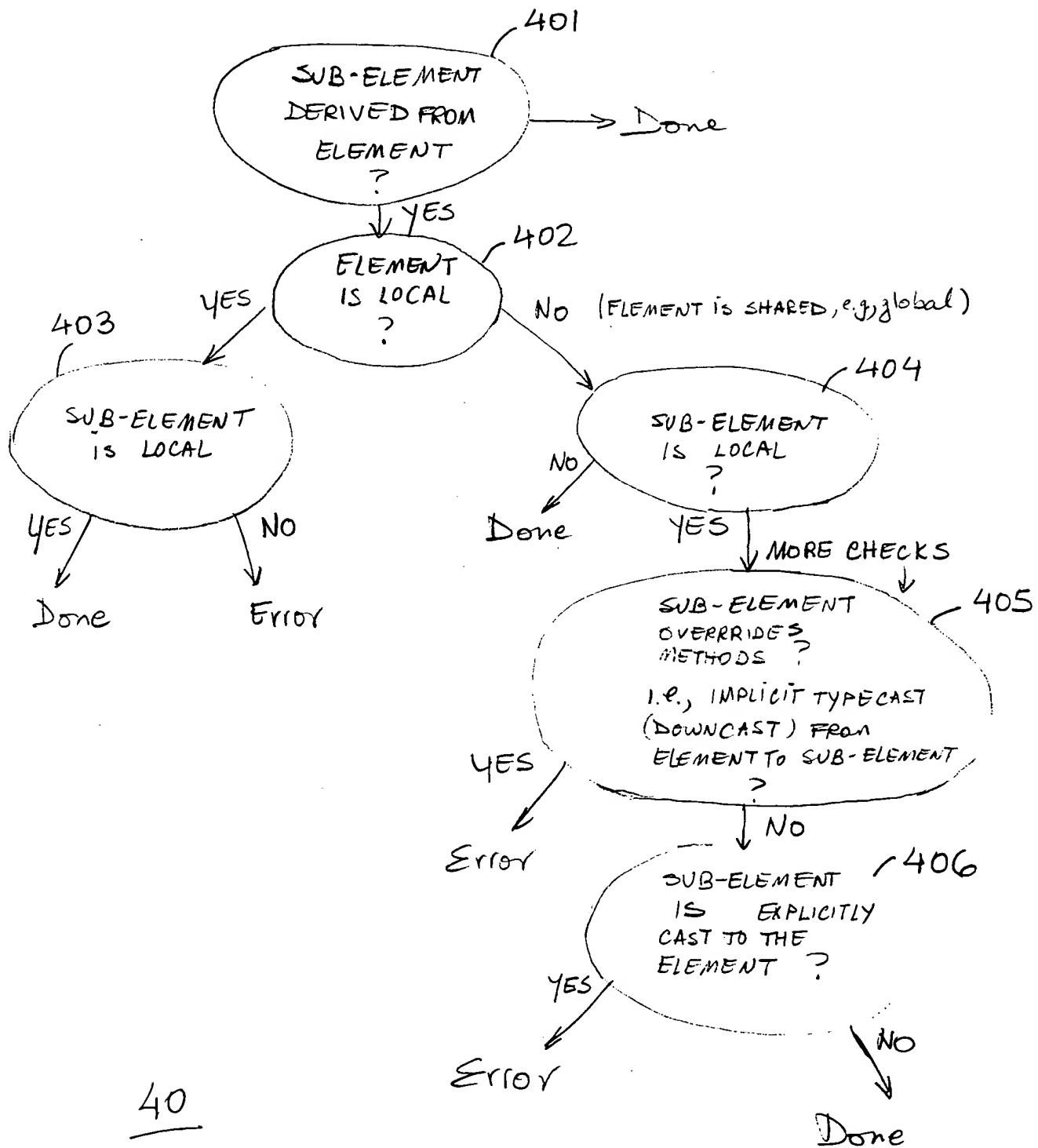


Fig. 4

more checks ;

CODE 6 6332200

thread shared class A {

Object f;  
void foo() { ... }  
}

thread local class B extends A {

Object g;  
void foo() { ... this.g ... }  
}

of type B

(typecasts)  
ok if no downcasts from A to B

• explicit c is of type A

$d = (B)c$

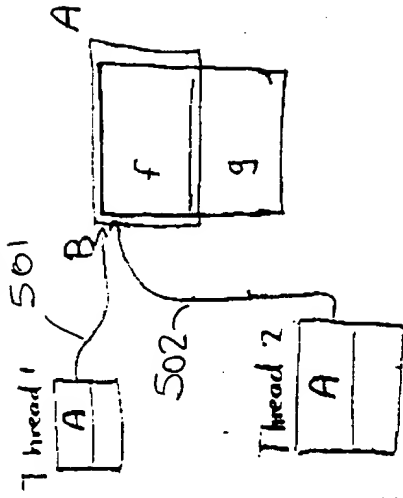
d.g  
• implicit

c is of type A (but actually points to a B object)

c.foo();

Create a B object  
Cast it to type A  
Pass it between threads  
Cast it back to type B  
and access fields of B.

Fig. 5



error:

```
thread local class A {
```

```
    Object f;
```

```
}
```

```
thread shared class B extends A {
```

```
    Object g;
```

```
}
```

Object f 601

601



602

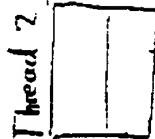


Fig. 6